

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM061923\  
 Data File : BM040319.D  
 Acq On : 19 Jun 2023 17:59  
 Operator : MA/JU  
 Sample : 03080-12DL 5X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DCFJ1DL

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 06/21/2023  
 Supervised By :mohammad ahmed 06/21/2023

Quant Time: Jun 20 00:14:08 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM061423.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jun 15 00:31:16 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|--------|--------|----------|
| -----                       |        |      |          |        |        |          |
| Internal Standards          |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.970  | 152  | 7413     | 0.400  | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.778 | 136  | 28862    | 0.400  | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.610 | 164  | 15544    | 0.400  | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.349 | 188  | 30702    | 0.400  | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.527 | 240  | 23789    | 0.400  | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 23.956 | 264  | 24187    | 0.400  | ng/ul  | # 0.00   |
|                             |        |      |          |        |        |          |
| System Monitoring Compounds |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8           | 3.346  | 96   | 7731     | 0.845  | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.367 | 152  | 2235     | 0.061  | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.375 | 212  | 4118     | 0.069  | ng/ul  | 0.00     |
|                             |        |      |          |        |        |          |
| Target Compounds            |        |      |          |        |        |          |
|                             |        |      |          |        | Qvalue |          |
| 5) Naphthalene              | 10.828 | 128  | 10335    | 0.151  | ng/ul# | 95       |
| 7) 2-Methylnaphthalene      | 12.439 | 142  | 4475     | 0.105  | ng/ul  | 98       |
| 8) 1-Methylnaphthalene      | 12.659 | 142  | 3687     | 0.083  | ng/ul  | 98       |
| 10) Acenaphthylene          | 14.327 | 152  | 35390    | 0.651  | ng/ul  | 99       |
| 11) Acenaphthene            | 14.670 | 153  | 7983     | 0.171  | ng/ul  | 99       |
| 12) Fluorene                | 15.655 | 166  | 8001     | 0.154  | ng/ul# | 96       |
| 15) Phenanthrene            | 17.391 | 178  | 292066   | 3.618  | ng/ul  | 99       |
| 16) Anthracene              | 17.484 | 178  | 54717    | 0.800  | ng/ul  | 100      |
| 19) Fluoranthene            | 19.408 | 202  | 980999   | 12.106 | ng/ul  | 96       |
| 20) Pyrene                  | 19.765 | 202  | 816875   | 9.702  | ng/ul  | 99       |
| 21) Benzo(a)anthracene      | 21.512 | 228  | 388756   | 5.536  | ng/ul  | 98       |
| 22) Chrysene                | 21.565 | 228  | 421139   | 5.678  | ng/ul  | 97       |
| 24) Benzo(b)fluoranthene    | 23.213 | 252  | 626984   | 7.032  | ng/ul  | 91       |
| 25) Benzo(k)fluoranthene    | 23.260 | 252  | 233785m  | 2.784  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.845 | 252  | 417655   | 5.708  | ng/ul# | 85       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.471 | 276  | 340347   | 3.675  | ng/ul# | 88       |
| 28) Dibenzo(a,h)anthracene  | 26.481 | 278  | 81899    | 1.102  | ng/ul# | 92       |
| 29) Benzo(g,h,i)perylene    | 27.252 | 276  | 301650   | 3.900  | ng/ul  | 98       |
| -----                       |        |      |          |        |        |          |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

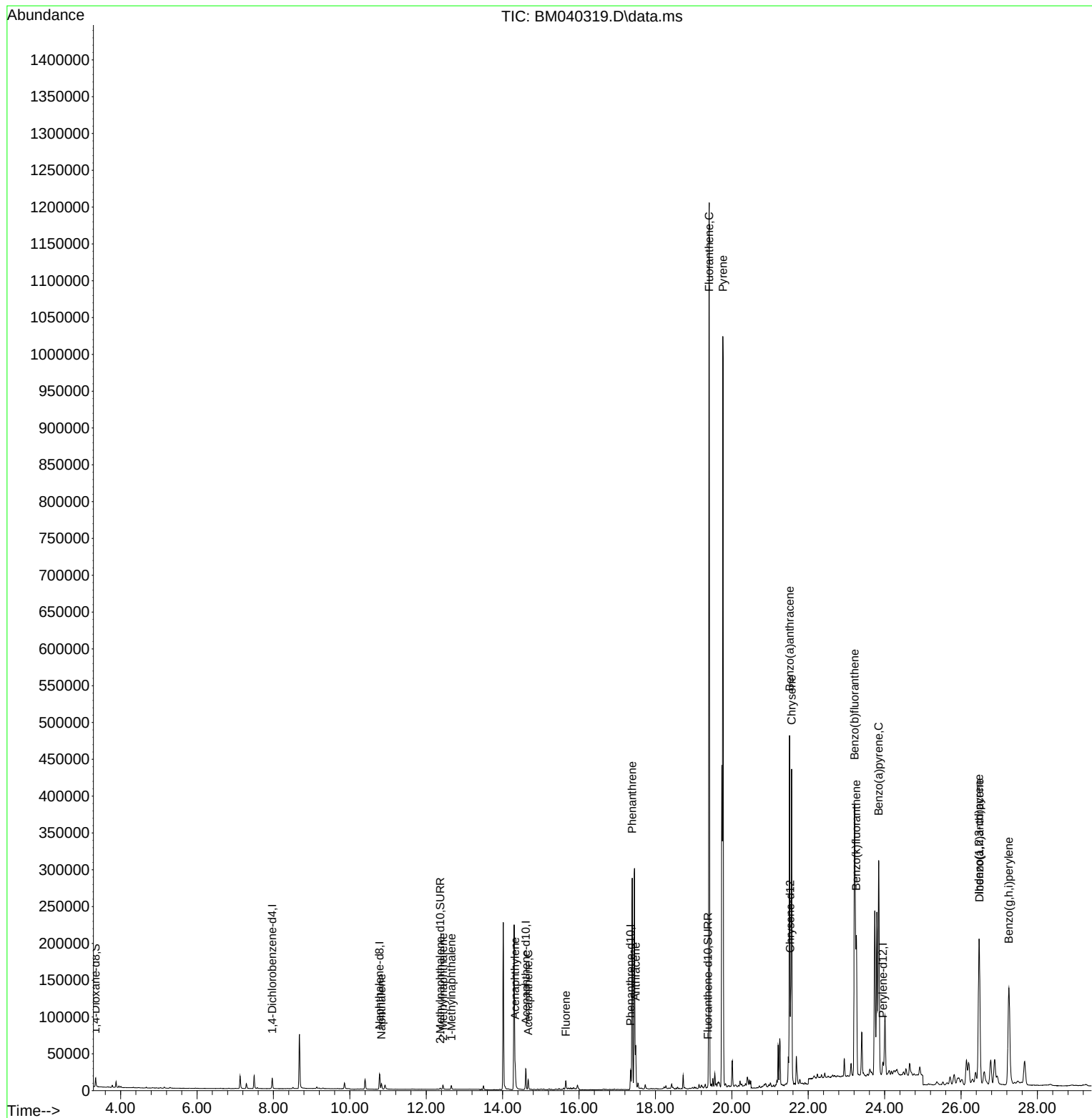
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM061923\  
Data File : BM040319.D  
Acq On : 19 Jun 2023 17:59  
Operator : MA/JU  
Sample : 03080-12DL 5X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

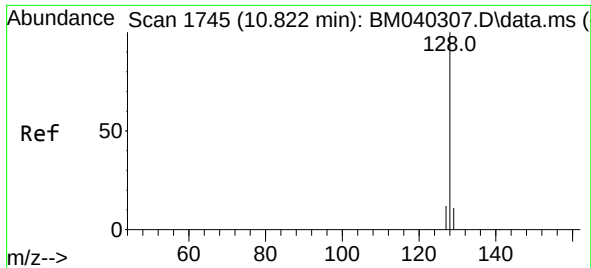
Instrument :  
BNA\_M  
ClientSampleId :  
DCFJ1DL

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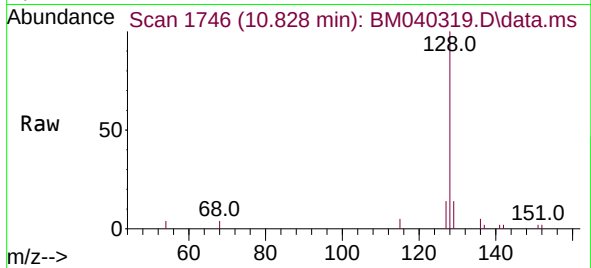
Quant Time: Jun 20 00:14:08 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM061423.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jun 15 00:31:16 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.151 ng/ul  
RT: 10.828 min Scan# 1745  
Delta R.T. -0.005 min  
Lab File: BM040319.D  
Acq: 19 Jun 2023 17:59

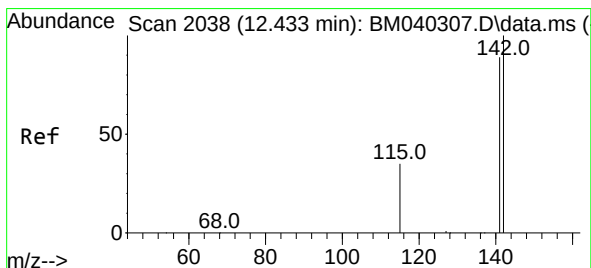
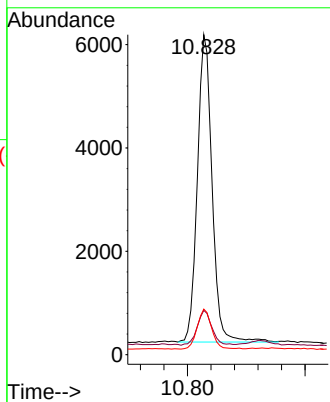
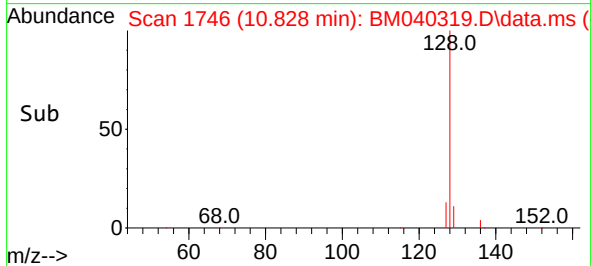
Instrument :  
BNA\_M  
ClientSampleId :  
DCFJ1DL



Tgt Ion:128 Resp: 10335  
Ion Ratio Lower Upper  
128 100  
129 13.9 9.1 13.7  
127 14.2 10.4 15.6

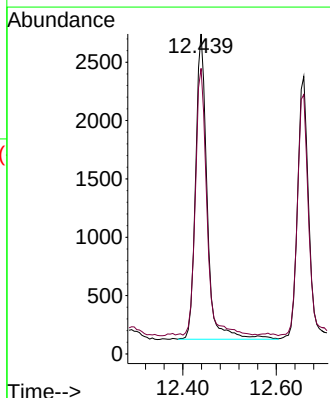
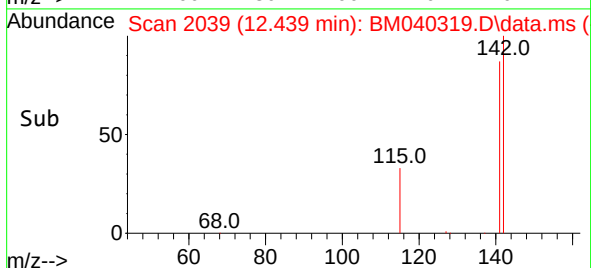
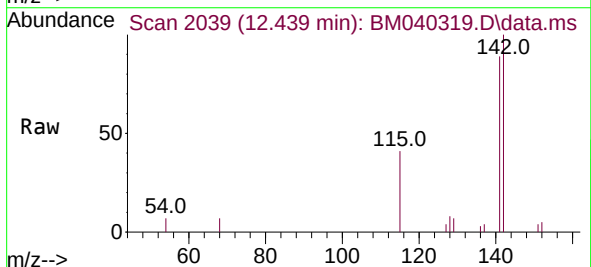
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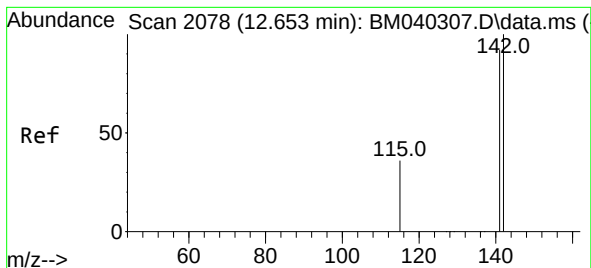
Reviewed By :Yogesh Patel 06/21/2023  
Supervised By :mohammad ahmed 06/21/2023



#7  
2-Methylnaphthalene  
Concen: 0.105 ng/ul  
RT: 12.439 min Scan# 2039  
Delta R.T. -0.005 min  
Lab File: BM040319.D  
Acq: 19 Jun 2023 17:59

Tgt Ion:142 Resp: 4475  
Ion Ratio Lower Upper  
142 100  
141 86.4 70.6 106.0





#8

1-Methylnaphthalene

Concen: 0.083 ng/ul

RT: 12.659 min Scan# 2078

Delta R.T. -0.005 min

Lab File: BM040319.D

Acq: 19 Jun 2023 17:59

Instrument :

BNA\_M

ClientSampleId :

DCFJ1DL

Tgt Ion:142 Resp: 368

Ion Ratio Lower Upper

142 100

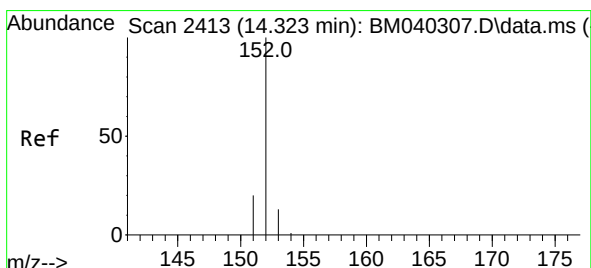
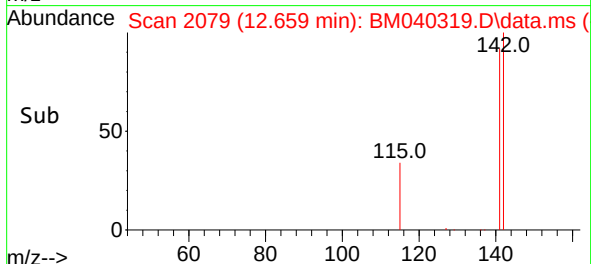
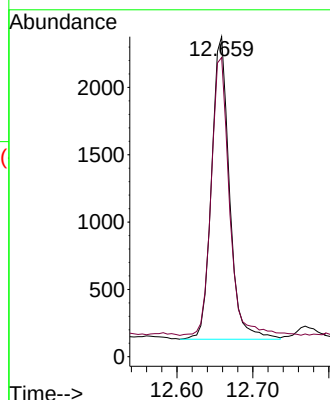
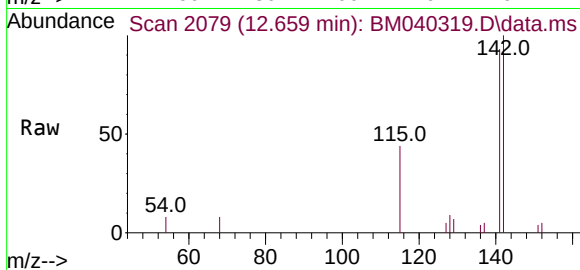
141 93.1 73.0 109.4

Manual Integrations

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#10

Acenaphthylene

Concen: 0.651 ng/ul

RT: 14.327 min Scan# 2414

Delta R.T. -0.005 min

Lab File: BM040319.D

Acq: 19 Jun 2023 17:59

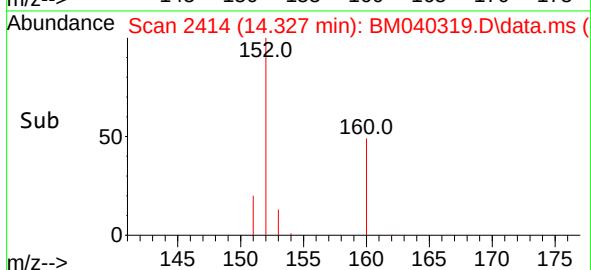
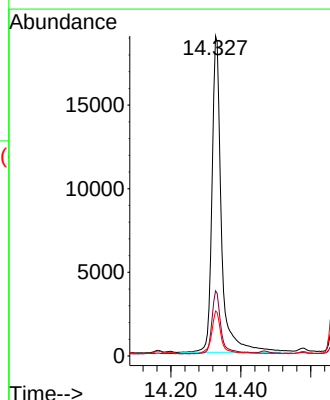
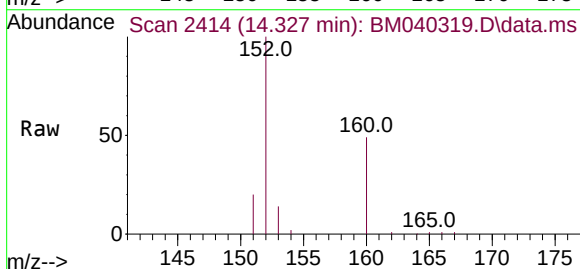
Tgt Ion:152 Resp: 35390

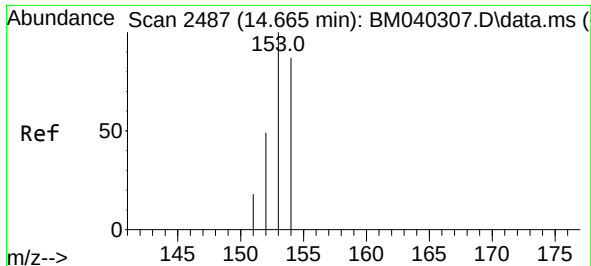
Ion Ratio Lower Upper

152 100

151 20.4 16.3 24.5

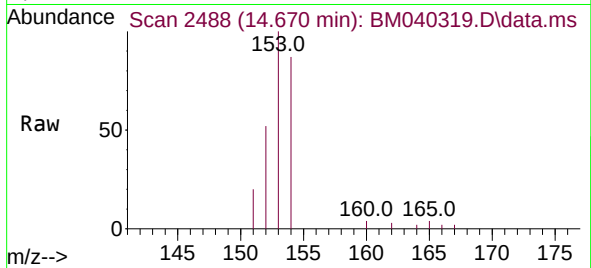
153 14.1 10.7 16.1





#11  
Acenaphthene  
Concen: 0.171 ng/u1  
RT: 14.670 min Scan# 2487  
Delta R.T. -0.005 min  
Lab File: BM040319.D  
Acq: 19 Jun 2023 17:59

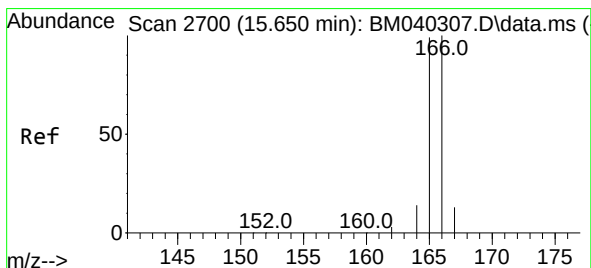
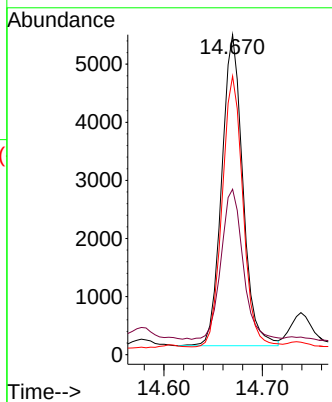
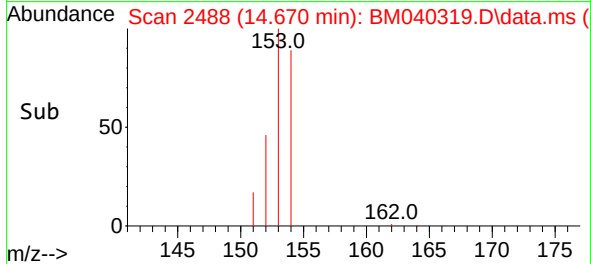
Instrument :  
BNA\_M  
ClientSampleId :  
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Tgt Ion:153 Resp: 798  
Ion Ratio Lower Upper  
153 100  
152 51.7 40.3 60.5  
154 87.1 70.5 105.7

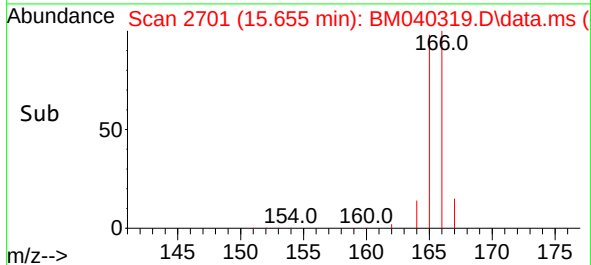
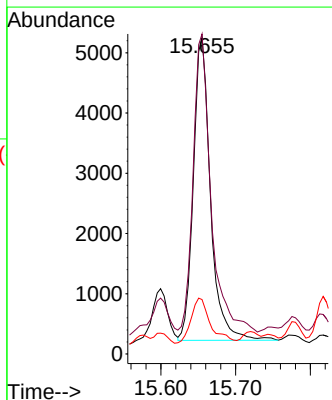
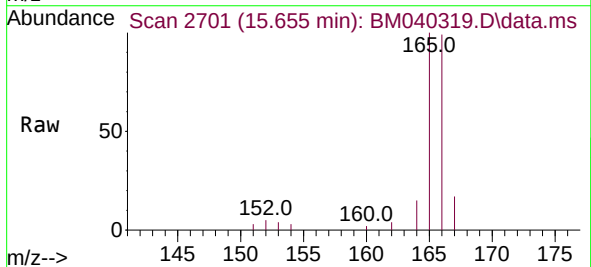
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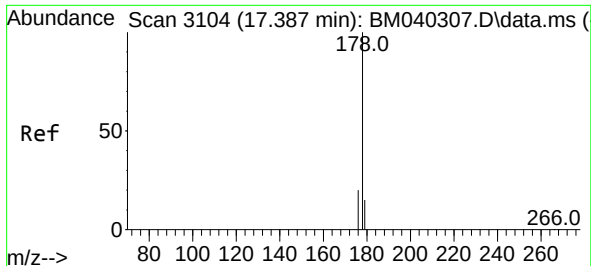
Reviewed By :Yogesh Patel 06/21/2023  
Supervised By :mohammad ahmed 06/21/2023



#12  
Fluorene  
Concen: 0.154 ng/u1  
RT: 15.655 min Scan# 2701  
Delta R.T. -0.005 min  
Lab File: BM040319.D  
Acq: 19 Jun 2023 17:59

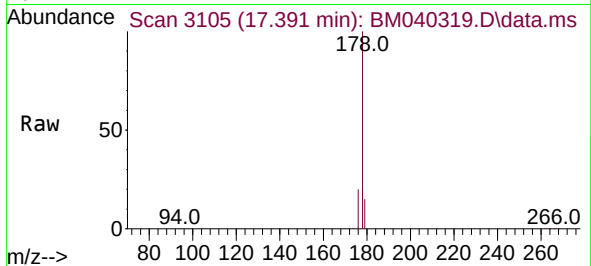
Tgt Ion:166 Resp: 8001  
Ion Ratio Lower Upper  
166 100  
165 101.2 78.2 117.4  
167 17.2 11.0 16.4#





#15  
Phenanthrene  
Concen: 3.618 ng/u1  
RT: 17.391 min Scan# 3105  
Delta R.T. -0.004 min  
Lab File: BM040319.D  
Acq: 19 Jun 2023 17:59

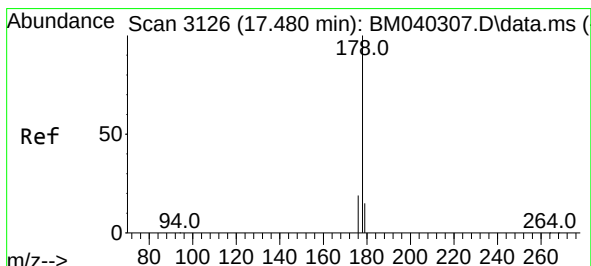
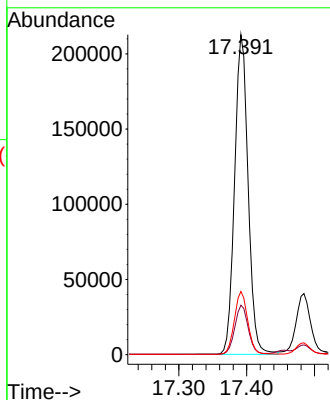
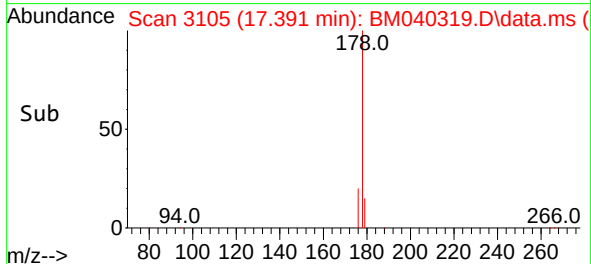
Instrument :  
BNA\_M  
ClientSampleId :  
DCFJ1DL



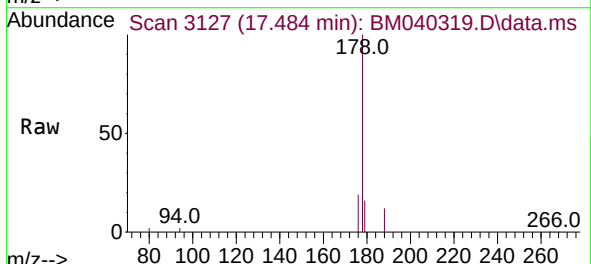
Tgt Ion:178 Resp: 292060  
Ion Ratio Lower Upper  
178 100  
179 15.5 12.6 19.0  
176 19.7 16.1 24.1

Manual Integrations  
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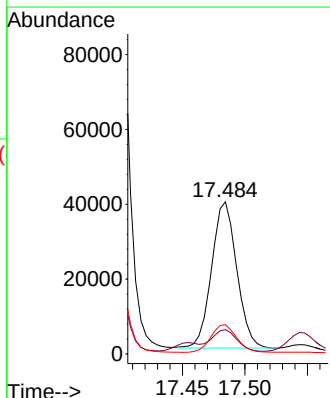
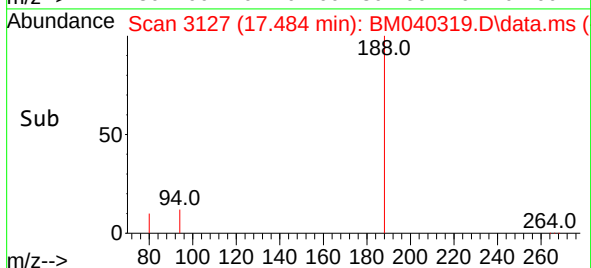
Reviewed By :Yogesh Patel 06/21/2023  
Supervised By :mohammad ahmed 06/21/2023

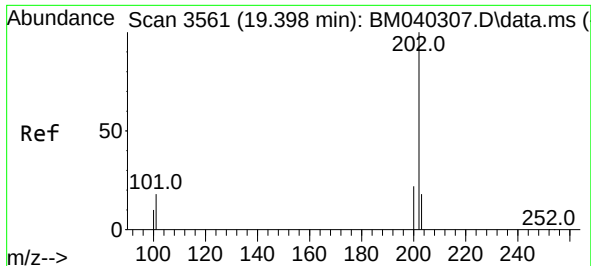


#16  
Anthracene  
Concen: 0.800 ng/u1  
RT: 17.484 min Scan# 3127  
Delta R.T. -0.004 min  
Lab File: BM040319.D  
Acq: 19 Jun 2023 17:59



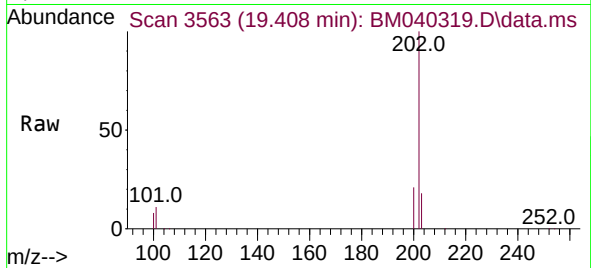
Tgt Ion:178 Resp: 54717  
Ion Ratio Lower Upper  
178 100  
179 16.0 13.0 19.4  
176 19.3 15.5 23.3





#19  
Fluoranthene  
Concen: 12.106 ng/u1  
RT: 19.408 min Scan# 3563  
Delta R.T. 0.000 min  
Lab File: BM040319.D  
Acq: 19 Jun 2023 17:59

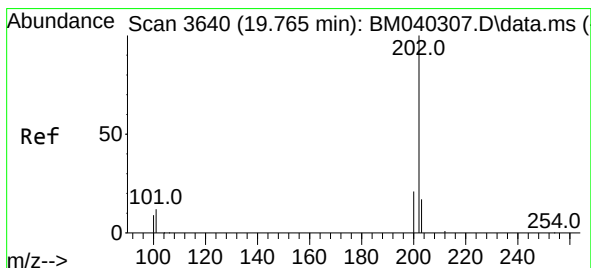
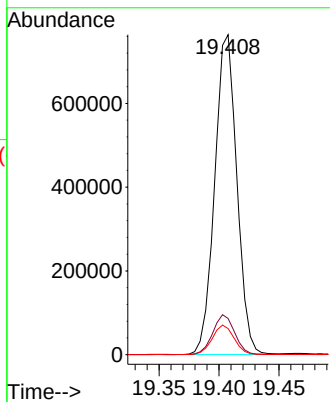
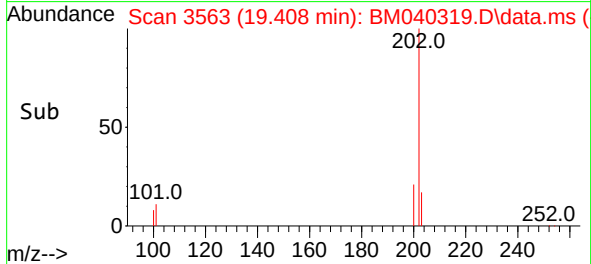
Instrument :  
BNA\_M  
ClientSampleId :  
DCFJ1DL



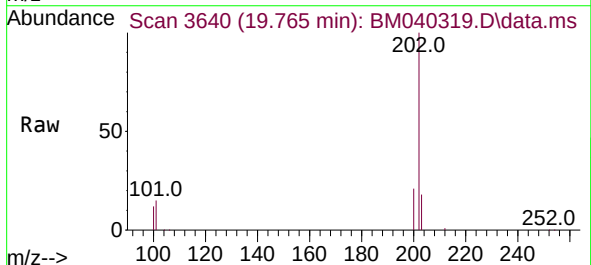
Tgt Ion:202 Resp: 980999  
Ion Ratio Lower Upper  
202 100  
101 11.3 10.2 15.4  
100 8.1 7.6 11.4

Manual Integrations  
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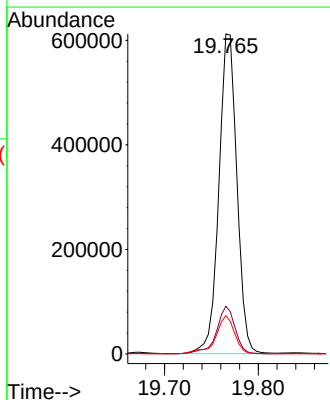
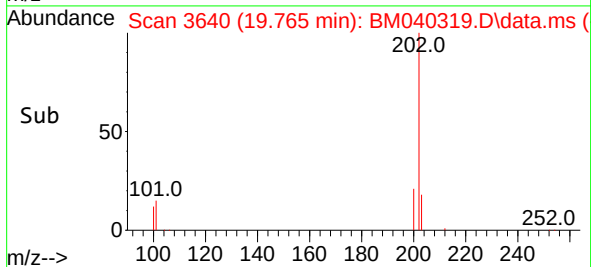
Reviewed By :Yogesh Patel 06/21/2023  
Supervised By :mohammad ahmed 06/21/2023

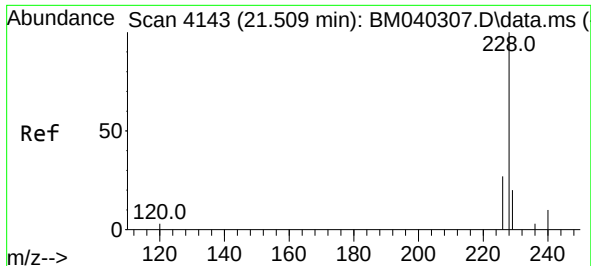


#20  
Pyrene  
Concen: 9.702 ng/u1  
RT: 19.765 min Scan# 3640  
Delta R.T. -0.005 min  
Lab File: BM040319.D  
Acq: 19 Jun 2023 17:59



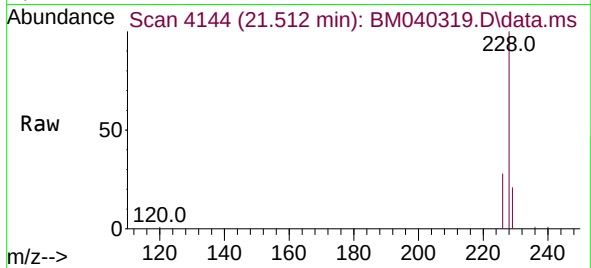
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Ion Ratio Lower Upper  
202 100  
101 14.9 11.8 17.8  
100 11.9 9.3 13.9





#21  
Benzo(a)anthracene  
Concen: 5.536 ng/u1  
RT: 21.512 min Scan# 4143  
Delta R.T. -0.003 min  
Lab File: BM040319.D  
Acq: 19 Jun 2023 17:59

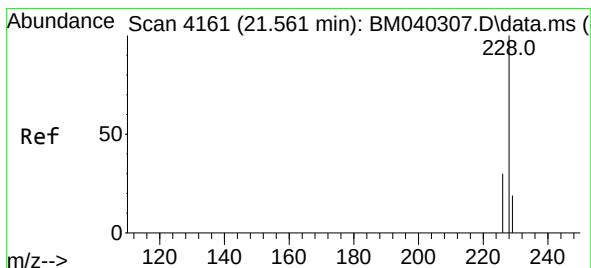
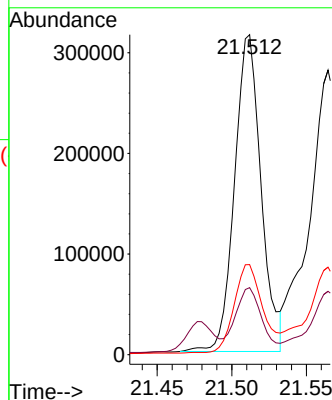
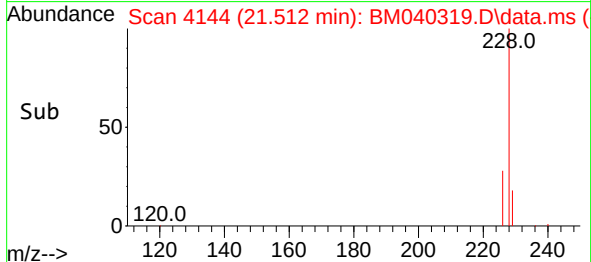
Instrument :  
BNA\_M  
ClientSampleId :  
DCFJ1DL



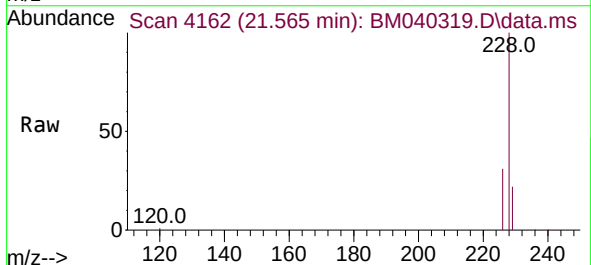
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228 100  
229 20.9 15.8 23.8  
226 28.1 22.0 33.0

Manual Integrations  
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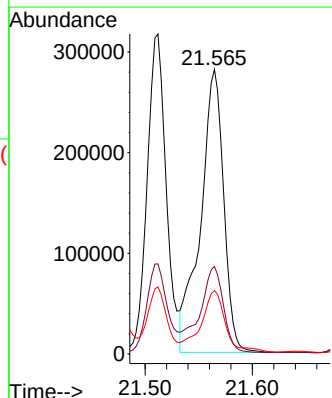
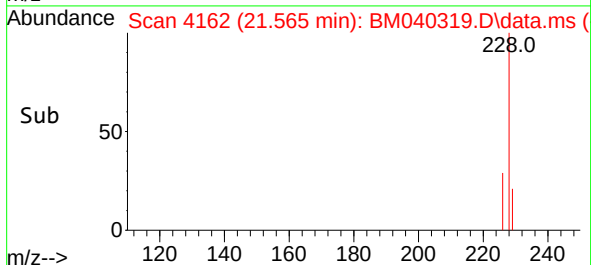
Reviewed By :Yogesh Patel 06/21/2023  
Supervised By :mohammad ahmed 06/21/2023



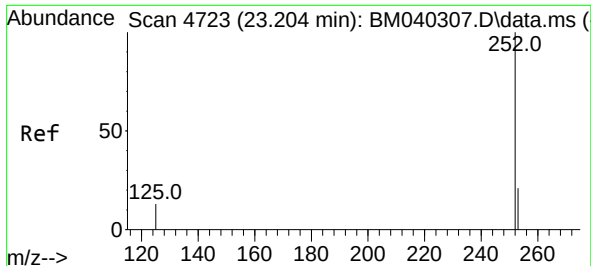
#22  
Chrysene  
Concen: 5.678 ng/u1  
RT: 21.565 min Scan# 4162  
Delta R.T. -0.006 min  
Lab File: BM040319.D  
Acq: 19 Jun 2023 17:59



Tgt Ion:228 Resp: 421139  
Ion Ratio Lower Upper  
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226 30.8 24.3 36.5  
229 22.3 15.7 23.5

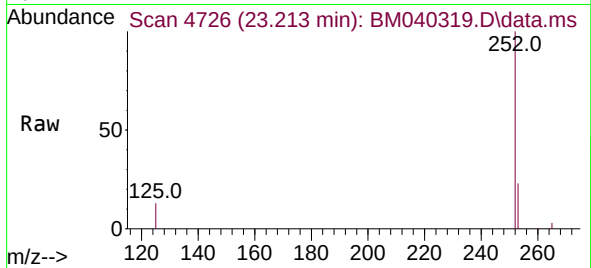






#24  
Benzo(b)fluoranthene  
Concen: 7.032 ng/ul  
RT: 23.213 min Scan# 4726  
Delta R.T. -0.003 min  
Lab File: BM040319.D  
Acq: 19 Jun 2023 17:59

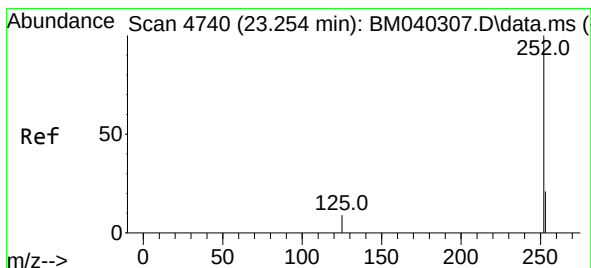
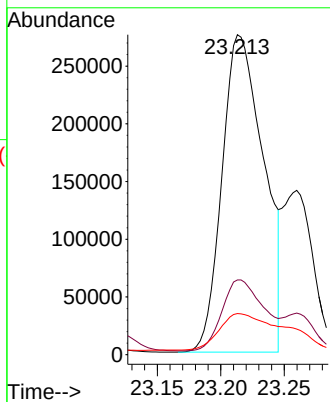
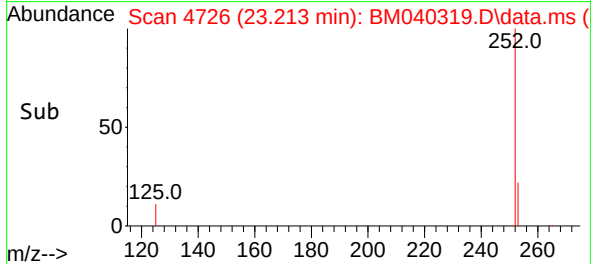
Instrument :  
BNA\_M  
ClientSampleId :  
DCFJ1DL



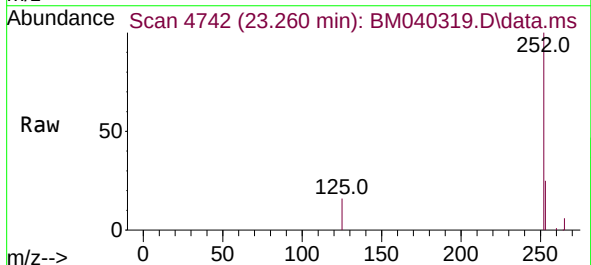
Tgt Ion:252 Resp: 626984  
Ion Ratio Lower Upper  
252 100  
253 23.3 0.0 52.4  
125 12.9 0.0 38.4

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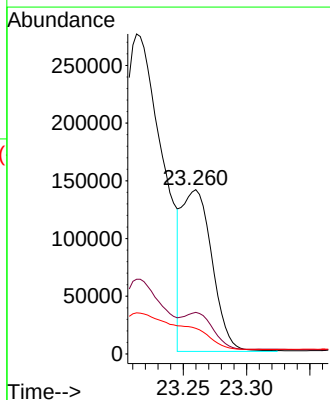
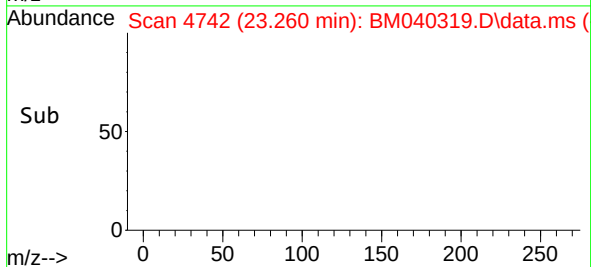
Reviewed By :Yogesh Patel 06/21/2023  
Supervised By :mohammad ahmed 06/21/2023

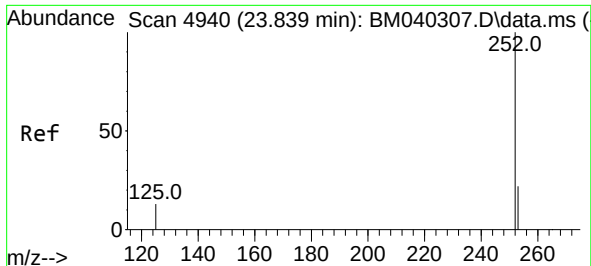


#25  
Benzo(k)fluoranthene  
Concen: 2.784 ng/ul m  
RT: 23.260 min Scan# 4742  
Delta R.T. -0.006 min  
Lab File: BM040319.D  
Acq: 19 Jun 2023 17:59



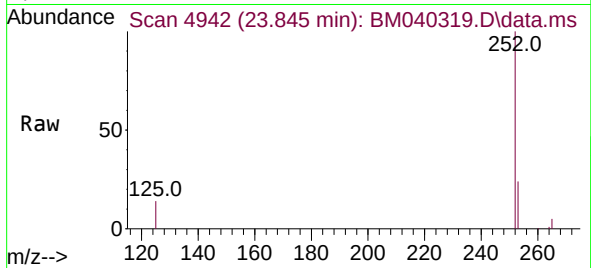
Tgt Ion:252 Resp: 233785  
Ion Ratio Lower Upper  
252 100  
253 25.3 21.5 32.3  
125 15.6 14.7 22.1





#26  
Benzo(a)pyrene  
Concen: 5.708 ng/ul  
RT: 23.845 min Scan# 4940  
Delta R.T. -0.006 min  
Lab File: BM040319.D  
Acq: 19 Jun 2023 17:59

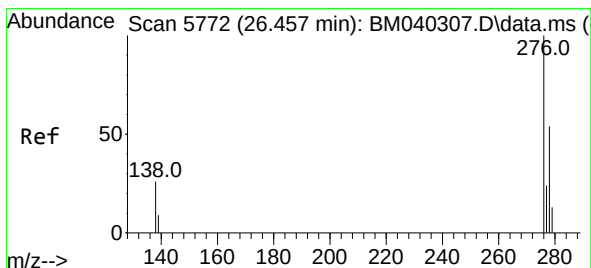
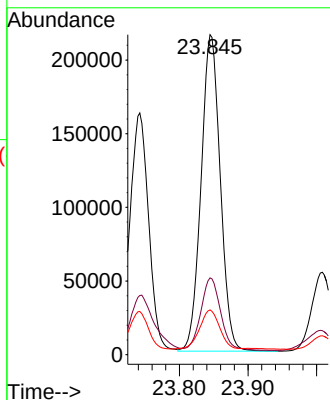
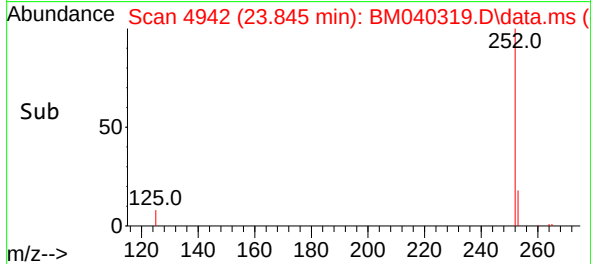
Instrument :  
BNA\_M  
ClientSampleId :  
DCFJ1DL



Tgt Ion:252 Resp: 41765  
Ion Ratio Lower Upper  
252 100  
253 24.0 23.4 35.0  
125 14.0 19.7 29.5

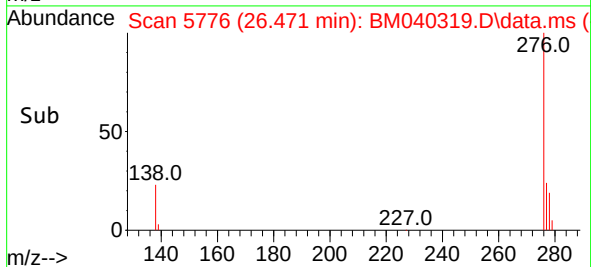
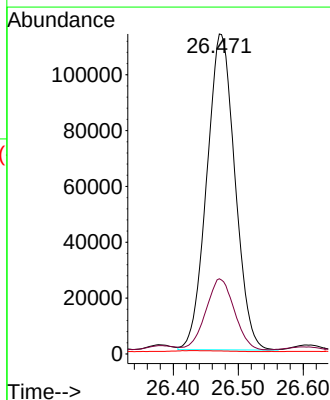
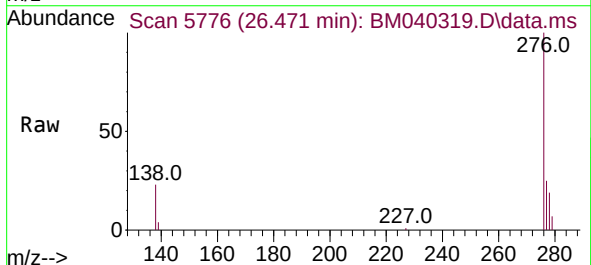
Manual Integrations  
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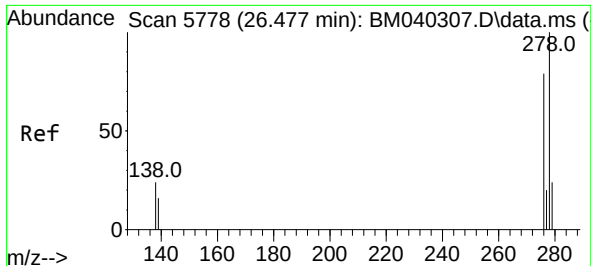
Reviewed By :Yogesh Patel 06/21/2023  
Supervised By :mohammad ahmed 06/21/2023



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 3.675 ng/ul  
RT: 26.471 min Scan# 5776  
Delta R.T. -0.007 min  
Lab File: BM040319.D  
Acq: 19 Jun 2023 17:59

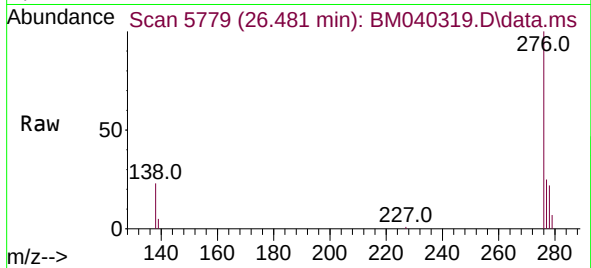
Tgt Ion:276 Resp: 340347  
Ion Ratio Lower Upper  
276 100  
138 22.7 23.3 34.9#  
227 0.0 0.1 0.1#





#28  
Dibenzo(a,h)anthracene  
Concen: 1.102 ng/ul  
RT: 26.481 min Scan# 5779  
Delta R.T. -0.017 min  
Lab File: BM040319.D  
Acq: 19 Jun 2023 17:59

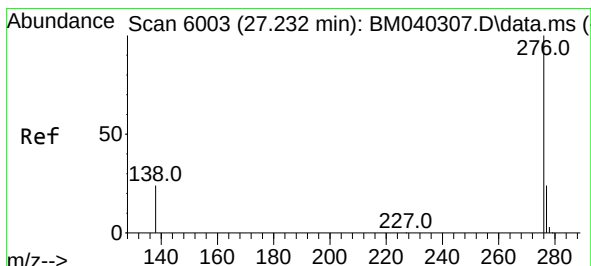
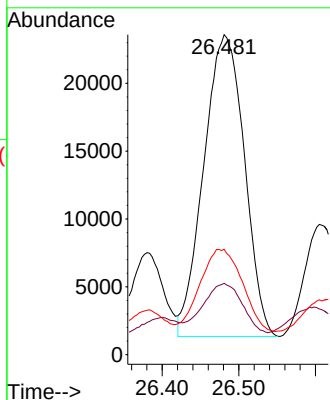
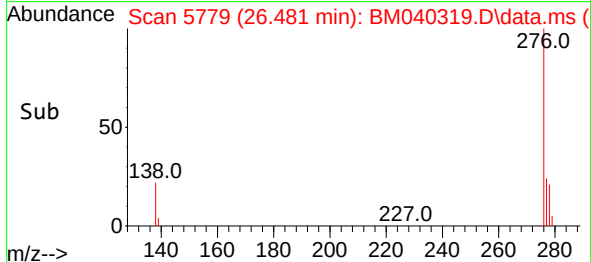
Instrument :  
BNA\_M  
ClientSampleId :  
DCFJ1DL



Tgt Ion:278 Resp: 8189  
Ion Ratio Lower Upper  
278 100  
139 22.3 16.4 24.6  
279 33.0 21.8 32.8

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 06/21/2023  
Supervised By :mohammad ahmed 06/21/2023



#29  
Benzo(g,h,i)perylene  
Concen: 3.900 ng/ul  
RT: 27.252 min Scan# 6009  
Delta R.T. -0.003 min  
Lab File: BM040319.D  
Acq: 19 Jun 2023 17:59

Tgt Ion:276 Resp: 301650  
Ion Ratio Lower Upper  
276 100  
138 24.1 21.0 31.4  
277 24.4 19.6 29.4

